

STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION
AND
DEVELOPMENT



TECHNICAL SPECIFICATIONS FOR
TRUCK, CAB & CHASSIS, 35,000# GVWR
W/6 YD. DUMP BODY AND HOIST
SERIES NO. 144-000

Equipment Specification 144-000B

WARNING TO BIDDERS:

Bidder should complete every item described in detail in the "Specification Descriptions" section by either entering a check mark in the space provided to indicate the item being bid is exactly as specified or bidder should enter a written description to indicate any proposed item which will deviate from the specifications.

THIS SPECIFICATION SHOULD BE EXECUTED IN ACCORDANCE WITH THE ABOVE INSTRUCTIONS AND RETURNED ALONG WITH BID AND LITERATURE TO BE CONSIDERED FOR AN AWARD.

ITEM I/D	SPECIFICATION DESCRIPTIONS	BIDDER'S PROPOSAL
General	<p>These specifications describe the minimum requirements for a TRUCK, CAB & CHASSIS, 35,000# GVWR W/6 YD. DUMP BODY AND HOIST. <u>Any proposed value that is less than a minimum requirement will not be accepted.</u></p> <p>This equipment shall be new, a production model of current manufacture, and must meet all State and Federal safety standards in effect at time of delivery.</p> <p><u>Any additions, deletions, or variations from the following specifications should be noted in the Bidder's Proposal.</u> Any items appearing in the manufacturer's regular published specifications furnished by the Bidder are assumed to be included in the "Bidder's Proposal." <u>Any additions, deletions or variations from the manufacturer's regular published specifications should be outlined in an attached letter.</u></p>	
Typical Specifications	<p>A Freightliner M2-106 truck and a Warren F451 dump body, both with appropriate options, was used to develop these Specifications.</p> <p>Equipment of similar style, type, character, quality, features, and purpose conforming to the following detailed requirements/specifications will be considered. To that end and prior to award, the vendor must provide upon request any necessary manufacturer information (catalogue sheets, detailed specifications, pictures, etc.) for any of the exceptions taken on the bid proposal. This information will be evaluated to determine if the aforementioned exception(s) are equal.</p> <p>These specifications used the standard options/features of the above listed items as the basis and minimum requirements for establishing equivalency.</p>	

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Workmanship	<p>Any unit delivered under this specification is subject to rejection if there is evidence of poor workmanship, by either the vendor or the original manufacturer. Any defect/nonconformity, so noted, may be corrected by the vendor to the satisfaction of the Equipment Engineer or his representative. All defect/nonconformity corrections must be completed before invoices can be processed for payment.</p> <p>Vendor installation of any portion of equipment unit(s) should be stated in "Bidder's Proposal". Failure to note such installations can result in rejection of the unit(s) at the time of delivery.</p> <p>Note: Bidder shall have a facility in the State of Louisiana with properly trained technicians plus all other resources necessary to perform warranty service on the truck chassis portion of this piece of equipment. All such service must be performed in complete accordance with the truck manufacturer's requirements, and a letter to certify this ability may be required.</p>	
Note	All Values listed below are minimums unless noted.	

ITEM I/D	SPECIFICATION DESCRIPTIONS	BIDDER'S PROPOSAL
Cab & Chassis		
GVWR	35,000 lbs.	
Wheelbase	150"	
Cab to Axle	83" clear	
Bumper to Back of Cab	103"	
Frame	1,300,000 RBM (Resisting Bending Moment)	
Cab	<ul style="list-style-type: none"> • Standard • Conventional • Tinted safety glass • Driver air ride seat • Passenger air ride seat • Premium insulation package • Remote mounted engine controls for PTO <ul style="list-style-type: none"> ○ Also, refer to Item I/D – "PTO Control" 	
Engine	<ul style="list-style-type: none"> • Electronic diesel • Liquid cooled • 6-cylinder inline configuration • 7.7 L • 330 HP • 1000 ft. lbs. • Engine to include turbo exhaust brake • Emission system must include DEF <ul style="list-style-type: none"> ○ DEF tank to be located on driver's side next to fuel tank • Engine to be biodiesel compatible. 	

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Fuel System	<ul style="list-style-type: none"> • One (1) Metal fuel tank with 50-gallon capacity & drain (tank to be located on drivers side) • Davco Fuel Processor or equal <ul style="list-style-type: none"> ○ Mounted to outside of frame • Visual element change indication that is integral to and non-removable from unit (to be located on drivers side near fuel tank) • Water-in-fuel sensor and with indicator in cab • Entire fuel system to be biodiesel compatible 	
Electrical System	<ul style="list-style-type: none"> • 12 volt system • 180 amp alternator • Batteries with a combined total of 1800 CCA • Battery disconnect switch, conveniently located inside cab • Two (2) additional body circuit switches (upfitter switches) mounted in cab 	
Transmission	<ul style="list-style-type: none"> • Automatic • Allison 3500 RDS or equal • Performance to be optimized at 65 MPH • To be filled with manufacture approved synthetic lubricants 	
PTO	<ul style="list-style-type: none"> • Hot shift • 6-bolt • Two-gear • Single speed 	
PTO Control	<ul style="list-style-type: none"> • Controls to be located inside cab <ul style="list-style-type: none"> ○ Also, refer to Item I/D – “Cab” • Warning light to indicate when unit is engaged 	
Front Axle	<ul style="list-style-type: none"> • 12,000 lbs. GAWR capacity • 6,000 lbs. capacity each spring @ ground • To be filled with manufacture approved synthetic lubricants 	

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Rear Axle	<ul style="list-style-type: none"> • Single speed • 23,000 lbs. GAWR capacity • Heavy duty springs <ul style="list-style-type: none"> ○ Low deflection springs are not acceptable • 11,500 lbs. capacity each spring @ ground • Axle ratio to permit truck to operate at 65 MPH on highway without excessive engine speed. Bidder to List RPM @ 65 MPH. • To be filled with manufacture approved synthetic lubricants 	
Brakes	<ul style="list-style-type: none"> • Full air brakes • ABS brake system with traction control • Automatic slack adjusters • Automatic moisture ejectors • System to include an 18.7 CFM air compressor • Bendix AD-9 air dryer or equal 	
Wheels	<ul style="list-style-type: none"> • Size - 8.25 X 22.5 • Hub piloted steel disc 	
Tires	<ul style="list-style-type: none"> • First line • First quality • Size - 11R X 22.5 • Front - Single highway tread • Rear - Dual on/off road tread • Load ratings compatible with GVWR 	
Bumper	<ul style="list-style-type: none"> • Full width all-steel front bumper • Two (2) tow hooks attached to front 	

ITEM I/D	SPECIFICATION DESCRIPTIONS	BIDDER'S PROPOSAL
Accessories	<ul style="list-style-type: none"> • Integral power steering • Climate control to include <ul style="list-style-type: none"> ○ Heater ○ Defroster ○ Air conditioning • Air cleaner restriction gauge • Gauge package • Two (2) air horns (roof mounted) • One (1) standard electric horn • Intermittent windshield wipers with washers • Self-cancelling directional signals • Cab entry handles, driver & passenger side • Cab sound insulation package • Driver and passenger air ride seats • Dual sunshades • Mud flaps • Seat belts • Outside mirrors, left and right, 90 sq. in. <ul style="list-style-type: none"> ○ Power & heated • Adjustable spot mirrors • Backup alarm 97 dba • AM/FM/WB radio, with auxiliary front input • Daytime running lights (automatic) • Fire extinguisher, warning triangle, and any other mandated safety items. 	
NOTE	<p>The truck and attached equipment manufacturers must mutually resolve any unexpected truck/attached equipment component conflict with a sound and functional solution as a requirement of this specification.</p>	

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Attached Equipment		
Dump Body	<ul style="list-style-type: none"> • Six (6) Cubic Yard water level • Dimensions <ul style="list-style-type: none"> ○ 10' 0" long ○ 7'3" inside width ○ 2'0" sides ○ 2'6" ends • With ½ cab protector • Dump body to be equipped with subframe 	
Floor & Sides	<ul style="list-style-type: none"> • 3/16" one-piece steel • 45,000 PSI yield strength steel • Sides, front panel, tailgate, and all braces to be 10 gauge 45,000 PSI yield strength steel. • Top rail to be 4 X 4 X 1/8 square tubing. • Rub rail to be 4" wide with a thirty (30) degree slope to avoid dirt buildup. • 2" side to floor radius. Welded inserts are acceptable provided that they are of the same material (thickness, yield strength and chemical composition) as the floor and 100 percent (100%) continuously welded in place. • ALL welds, except crossmember to body floor, will be continuous. • Vertical side braces: Three (3) to be 6" wide, box type, sloped from rub rail width at bottom to top rail width at top. • Horizontal, centered, box bracing running from the front corner post of body to the rear corner post is required. • The rear corner post to be full depth from the top of the gate to the bottom of the rear cross member, one (1) piece fabricated to a box section of 4" X 8". • An 8" wrap around front corner post is required. • Rear bolster shall be full width of body and have height of 8" to cover ends of longitudinals. • There shall be eight (8) (four (4) per side) side board gussets with 2" X 6" steel tubing side boards. 	

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Lights	<ul style="list-style-type: none"> Lamps to be rubber-mounted snap-in shock-proof type with plug in connectors. All body lighting must meet FMVSS Standard No. 108. LED oval stop/turn/tail lights mounted in rear posts. Four (4)-point LED flashing light system, <ul style="list-style-type: none"> Two (2) clear ovals in cab shield Two (2) clear ovals in rear posts "Body Raised" indicator light is to be installed in cab to alert driver when body is in raised position. Dump body lighting wiring shall be incorporated into one (1) harness with only two (2) leads connecting into truck chassis lighting system. Dump body wiring shall be run inside metal conduit for protection. 	
Tailgate	<ul style="list-style-type: none"> Must be air operated. Tailgate to have full perimeter box bracing plus two (2) vertical box-type braces. Tailgate hardware shall be mounted on top of rear corner post upper cap plate. Upper gate hinges to be 1 1/4" steel flame cut and of boomerang design. Upper hinges shall be self-cleaning, and shall rest on top of rear post with gate in closed position. Hinge pin and bottom gate pin to be 1 1/4" in diameter. Bottom pins to be reinforced with angle inside tailgate. Spreader chain to be 3/8". Lower hardware backing plate shall be 2" and fully welded into rear corner post. Rear cross shaft to have center support. 	

ITEM I/D	SPECIFICATION DESCRIPTIONS	BIDDER'S PROPOSAL
Hoist	<ul style="list-style-type: none"> • 29.4-ton capacity • Single ram • NTEA Class 70 hoist • Front telescopic hoist • In cab floor mounted controls, with three (3) positions, for dump body section of tandem hydraulic pump, easy access for operators. 	
Hydraulic System	<ul style="list-style-type: none"> • Tandem, gear-type, hydraulic pump, 2,000 PSI rated, mounted directly to PTO. <ul style="list-style-type: none"> ○ Pump section for dump body to be rated for 24 GPM @ 1500 RPM. ○ Pump section for tailgate spreader to be rated for 18 GPM @ 1500 RPM. • Pump shall be air-shifted, plus have control valve for flow metering and easy operator access. • Tailgate spreader section of hydraulic pump to be equipped with dual full pressure in-cab controls (Gresen Model QDB75AO7B16NA or equal), pressure relief for both sections set at 1500 PSI. • To include dual remote hydraulic outlets and quick connects located at back end of truck frame, attached to pintle hitch backing plate. All connectors are to be installed in a protected location that does not extend past the pintle hitch backing plate. • A hydraulic reservoir of 30-gallon capacity shall be mounted to the truck frame, complete with a replaceable cartridge-type return line hydraulic oil filter (block valves in return line are not allowed). 	
Tarp System	<ul style="list-style-type: none"> • Donavon "Bullet" or equal • Twelve (12) volt, direct drive motor torsion arm design with in-cab controls. • All wiring to be inside metal conduit. • Tarp is to be asphalt lumite material, with the edges folded and sewn, and grommets installed every 24". • Tarp must also be resistant to punctures, abrasions and ultraviolet light. 	

ITEM I/D	SPECIFICATION DESCRIPTIONS	BIDDER'S PROPOSAL
Accessories	<ul style="list-style-type: none"> • Two (2) shovel brackets • A 1/4" X 2" walk rod plus one (1) step on each side of body. • Dump apron shall be 8" weld on type. • A 20-ton forged pintle hitch mounted on 1/2" steel backing plate with Two (2) 20-ton D-rings for safety chains. <ul style="list-style-type: none"> ○ Pintle hitch mounting height to be 25" - 27" from ground. • Glad hands and seven pole connector to be mounted to backing plate. All connectors are to be installed in a protected location that does not extend past the pintle hitch backing plate. 	
Body Prep/Paint	<ul style="list-style-type: none"> • Remove all weld splatter and slag, round sharp corners, grind sharp edges, buff all surfaces. • Prepare all metal surfaces (under structure and body) per paint manufacturer's requirements. • Prime all metal surfaces with PPG EPX Series high solids epoxy primer compatible with finish coat or equal <ul style="list-style-type: none"> ○ Primer to be 3-4 mils DFT • Apply finish coat of PPG Concept (DCC) Acrylic Urethane or equal <ul style="list-style-type: none"> ○ Color to be PPG No. 34850 gray or equal ○ Finish coat to be 4 mils DFT • Apply all coatings in strict accordance with manufacturer's recommendations • Note: Paint will be tested with a 7-mil magnet when it arrives at LADOTD, if the paint is not in compliance it will be rejected. <p>DOT C2 approved conspicuity tape, 2" wide 6" x 6", is to be placed continuously on both sides plus rear of body after paint process is complete.</p> <p>Must be compliant with 49 CFR 393.</p>	

ITEM I/D	SPECIFICATION DESCRIPTIONS	BIDDER'S PROPOSAL
Operation	Unit(s) must have been test run by the vendor for proper operation of all features and capabilities of the make and model described in the successful bidder's proposal, and documentation for verification of the test(s) may be required prior to acceptance by DOTD.	
Delivery	Unit(s) delivered to DOTD must be completely assembled (including but not limited to all components, accessories, etc.) and ready for operation. Unit(s) must be delivered "on the ground;" DOTD will not unload from any trucks, trailers, vans, etc. Note: LADOTD will have space available for successful bidder to unload.	
Serviced	<ul style="list-style-type: none"> • All dealer Pre Delivery Inspection (PDI) must be completed prior to acceptance. • All fluid levels are to be at full mark. • Fuel tank(s) to be full. • Any necessary lubrication performed etc. 	
Parts	Vendor should attach to bid a listing of the Louisiana locations where parts and service can be obtained.	
Descriptive Literature	TWO (2) COPIES OF DESCRIPTIVE PRODUCT ADVERTISEMENT-LITERATURE (BROCHURES) SHOULD BE FURNISHED WITH BID. Two (2) copies of the "Build Sheet" should be supplied with each unit. The build sheets should include all standard & optional features of the delivered unit. The build sheet should be in plain language not company specific item codes.	

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Miscellaneous Requirements	<p>Vehicle shall comply with Louisiana state and federal emission requirements in effect at time of delivery.</p> <p>EACH PIECE OF EQUIPMENT WILL BE ACCOMPANIED BY:</p> <ol style="list-style-type: none"> 1. Certificate of Origin 2. Dealer's Service Policy 3. Owner's/Operator's Manual 4. A notarized Bill of Sale 5. Service Manual(s) <p>Invoices will not be processed for payment until the delivered unit passes inspection for specification compliance.</p>	
Louisiana Safety Inspection	<p>Safety inspection shall be performed on each vehicle prior to delivery and a Louisiana safety sticker properly affixed.</p>	
Note:	<p>TIME OF DELIVERY MAY BE CONSIDERED IN DETERMINING SUCCESSFUL BIDDER</p>	